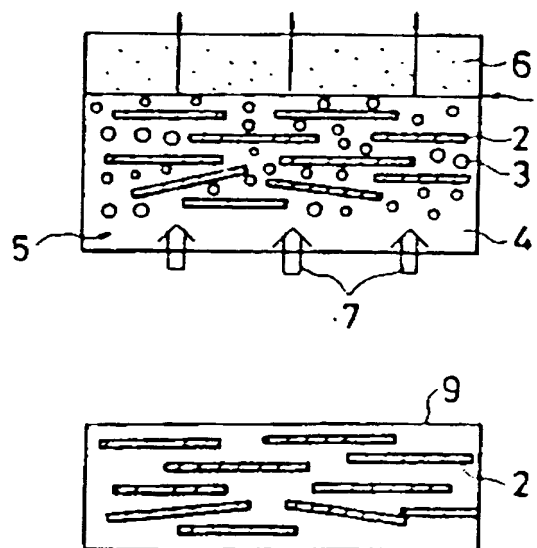


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 TITLE : PRODUCTION OF FIBER  
 REINFORCED CERAMICS



ABSTRACT : PURPOSE: To obtain fiber reinforced ceramics having excellent strength in a specific direction by dispersing short ceramics fiber and ceramics raw material powder into a liquid dispersion to prepare a slurry and sintering a molding obtd. by filtering the liquid dispersion from this slurry by a specific method.

CONSTITUTION: The short ceramics fiber 2 and the ceramics raw material powder 3 forming a matrix are dispersed in the liquid dispersion 4 to prepare the slurry 5. The slurry 5 is then packed into a form 1 formed of a porous material 6 and thereafter, the slurry 5 is pressurized toward the porous material 6 of the form 1 to orient the short ceramics fibers 2 in parallel with the porous material 6 while the liquid dispersion 4 is thereby discharged through the material 6, by which the molding consisting of the short fibers 2 and the ceramics raw material powder 3 is formed. The ceramics raw material powder 3 of the matrix is then compacted to the higher density to obtain the fiber reinforced ceramics 9.

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